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SELF.P-005-US PATENT APPLICATION

ABSTRACT OF THE DISCLOSURE

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An improved disposable glucose test strip for use in a test meter of the type which receives a disposable test strip and a sample of blood from a patient and performs an electrochemical analysis is made using a working formulation containing a filler, an enzyme effective to oxidize glucose, e.g., glucose oxidase, and a mediator effective to transfer electrons from the enzyme. The working formulation is printed over a conductive carbon base layer to form a working electrode. The filler, for example a silica filler, is selected to have a balance of hydrophobicity and hydrophilicity such that one drying it forms a twodimensional network on the surface of the conductive base The response of this test strip is essentially layer. temperature independent over relevant temperature ranges and is substantially insensitive to the hematocrit of the patient.